

*B-glucan sacry***WEST**

Generate Collection

**Search Results - Record(s) 1 through 28 of 28 returned.**☐ 1. Document ID: US 6323338 B1

L4: Entry 1 of 28

File: USPT

Nov 27, 2001

US-PAT-NO: 6323338

DOCUMENT-IDENTIFIER: US 6323338 B1

TITLE: Method for concentrating .beta.-glucan

DATE-ISSUED: November 27, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Potter; Richard C.	Seeley Lake	MT		
Fisher; Philip A.	Florence	MT		
Hash, Sr.; Kirk R.	Drummond	MT		
Neidt; John D.	St. Louis	MO		

US-CL-CURRENT: 536/123.12; 424/401, 424/488, 424/725, 424/750, 426/658,  
435/101, 435/99, 536/123.1, 536/128

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

☐ 2. Document ID: US 6316007 B1

L4: Entry 2 of 28

File: USPT

Nov 13, 2001

US-PAT-NO: 6316007

DOCUMENT-IDENTIFIER: US 6316007 B1

TITLE: Combined physical and immunotherapy for cancer

DATE-ISSUED: November 13, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nordquist; Robert E.	Oklahoma City	OK		
Chen; Wei	Norman	OK		
Carubelli; Raoul	Oklahoma City	OK		

US-CL-CURRENT: 424/277.1; 424/184.1, 424/278.1

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

☐ 3. Document ID: US 6290712 B1

L4: Entry 3 of 28

File: USPT

Sep 18, 2001

US-PAT-NO: 6290712

DOCUMENT-IDENTIFIER: US 6290712 B1

TITLE: Laser/sensitizer assisted immunotherapy

DATE-ISSUED: September 18, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nordquist; Robert E.	Oklahoma City	OK		
Chen; Wei R.	Norman	OK		
Carubelli; Raoul	Oklahoma City	OK		

US-CL-CURRENT: 607/88; 128/898, 606/15, 607/100, 607/89, 607/96

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KIMC	Draw Desc	Image
------	-----------	-------

☐ 4. Document ID: US 6277615 B1

L4: Entry 4 of 28

File: USPT

Aug 21, 2001

US-PAT-NO: 6277615

DOCUMENT-IDENTIFIER: US 6277615 B1

TITLE: (1.fwdarw.3, 1.fwdarw.4)--.beta.-glucanase of enhanced stability

DATE-ISSUED: August 21, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Varghese; Joseph Noozhumurry	Melbourne			AUX
Garrett; Thomas Peter John	Melbourne			AUX
Fincher; Geoffrey Bruce	Melbourne			AUX
Hoj; Peter Bordier	Melbourne			AUX
Chen; Lin	Melbourne			AUX

US-CL-CURRENT: 435/200; 435/69.1, 530/372

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KIMC	Draw Desc	Image
------	-----------	-------

☐ 5. Document ID: US 6277392 B1

L4: Entry 5 of 28

File: USPT

Aug 21, 2001

US-PAT-NO: 6277392

DOCUMENT-IDENTIFIER: US 6277392 B1

TITLE: Tissue injectable composition

DATE-ISSUED: August 21, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Klein; Dean A.	North Oaks	MN		

US-CL-CURRENT: 424/426; 523/113, 523/114

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KIMC	Draw Desc	Image
------	-----------	-------

☐ 6. Document ID: US 6214598 B1

L4: Entry 6 of 28

File: USPT

Apr 10, 2001

US-PAT-NO: 6214598

DOCUMENT-IDENTIFIER: US 6214598 B1

TITLE: Enzyme with endoglucanase activity

DATE-ISSUED: April 10, 2001

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Dalboege; Henrik	Virum			DKX
Andersen; Lene Nonboe	Birkerød			DKX
Kofod; Lene Venke	Ugerløse			DKX
Kauppinen; Markus Sakari	Copenhagen			DKX
Christgau; Stephan	Vedbaek			DKX

US-CL-CURRENT: 435/209; 435/252.3, 435/254.3, 435/277, 435/320.1, 435/69.1,  
536/23.2, 536/24.3

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KIMC	Draw Desc	Image
------	-----------	-------

☐ 7. Document ID: US 6162473 A

L4: Entry 7 of 28

File: USPT

Dec 19, 2000

US-PAT-NO: 6162473

DOCUMENT-IDENTIFIER: US 6162473 A

TITLE: Hemicellulase use in feeds with low caloric content

DATE-ISSUED: December 19, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Fodge; Douglas W.	Rockville	MD		
Hsiao; Hmg-Yu	Rockville	MD		

US-CL-CURRENT: 426/53; 426/46, 426/630

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KIMC	Draw Desc	Image
------	-----------	-------

☐ 8. Document ID: US 6149671 A

L4: Entry 8 of 28

File: USPT

Nov 21, 2000

US-PAT-NO: 6149671

DOCUMENT-IDENTIFIER: US 6149671 A

TITLE: Laser/sensitizer assisted immunotherapy

DATE-ISSUED: November 21, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nordquist; Robert E.	Oklahoma City	OK		
Chen; Wei R.	Norman	OK		
Carubelli; Raoul	Oklahoma City	OK		

US-CL-CURRENT: 607/89; 604/20, 606/13, 606/3, 607/88, 607/92

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KIMC	Draw Desc	Image
------	-----------	-------

☐ 9. Document ID: US 6051407 A

L4: Entry 9 of 28

File: USPT

Apr 18, 2000

US-PAT-NO: 6051407  
DOCUMENT-IDENTIFIER: US 6051407 A

TITLE: Cellulose synthase gene

DATE-ISSUED: April 18, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
Hasegawa; Osamu	Tokyo				JPX
Aotsuka; Satoshi	Tokyo				JPX
Hayashi; Takahisa	Kyodai-shukusha, Gokasho, Uji, Kyoto, 611				JPX
Ihara; Yuri	Osaka				JPX

US-CL-CURRENT: 435/101; 435/194, 435/252.3, 435/320.1, 536/23.2

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KIMC	Draw Desc	Image
------	-----------	-------

---

☐ 10. Document ID: US 6046000 A

L4: Entry 10 of 28

File: USPT

Apr 4, 2000

US-PAT-NO: 6046000  
DOCUMENT-IDENTIFIER: US 6046000 A

TITLE: Method for identifying genes encoding signal sequences

DATE-ISSUED: April 4, 2000

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP	CODE	COUNTRY
McCarthy; Sean A.	Boston	MA			
Kuranda; Michael Joseph	Acton	MA			
Bulawa; Christine Ellen	Arlington	MA			
Bossone; Steven	Lexington	MA			

US-CL-CURRENT: 435/6; 435/255.1, 435/320.1, 435/69.9, 435/91.4, 536/23.4,  
536/23.74, 536/24.1

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KIMC	Draw Desc	Image
------	-----------	-------

---

☐ 11. Document ID: US 6020016 A

L4: Entry 11 of 28

File: USPT

Feb 1, 2000

US-PAT-NO: 6020016

DOCUMENT-IDENTIFIER: US 6020016 A

TITLE: Glucan containing beverage and method of making the same

DATE-ISSUED: February 1, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Castleberry; Elen	Chico	CA		

US-CL-CURRENT: 426/590; 426/18, 426/20, 426/21, 426/28, 426/49, 426/599,  
426/650

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KIMC	Draw Desc	Image
------	-----------	-------

☐ 12. Document ID: US 5955337 A

L4: Entry 12 of 28

File: USPT

Sep 21, 1999

US-PAT-NO: 5955337

DOCUMENT-IDENTIFIER: US 5955337 A

TITLE: DNA encoding GLS1

DATE-ISSUED: September 21, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
El-Sherbeini; Mohammed	Westfield	NJ		
Clemas; Joseph A.	Metuchen	NJ		

US-CL-CURRENT: 435/193

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KIMC	Draw Desc	Image
------	-----------	-------

☐ 13. Document ID: US 5846590 A

L4: Entry 13 of 28

File: USPT

Dec 8, 1998

US-PAT-NO: 5846590

DOCUMENT-IDENTIFIER: US 5846590 A

TITLE: Method for enriching soluble dietary fibre

DATE-ISSUED: December 8, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Malkki; Yrjo	Espoo			FIN
Myllymaki; Olavi	Espoo			FIN

US-CL-CURRENT: 426/443; 426/452, 426/456, 426/459, 426/463, 426/469, 426/482,  
426/615

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

☐ 14. Document ID: US 5817643 A

L4: Entry 14 of 28

File: USPT

Oct 6, 1998

US-PAT-NO: 5817643

DOCUMENT-IDENTIFIER: US 5817643 A

TITLE: Underivatized, aqueous soluble .beta.(1-3) glucan, composition and method of making same

DATE-ISSUED: October 6, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jamas; Spiros	Boston	MA		
Easson, Jr.; D. Davidson	Shrewsbury	MA		
Ostroff; Gary R.	Worcester	MA		

US-CL-CURRENT: 514/54; 536/123.1, 536/123.12, 536/124

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

☐ 15. Document ID: US 5792478 A

L4: Entry 15 of 28

File: USPT

Aug 11, 1998

US-PAT-NO: 5792478

DOCUMENT-IDENTIFIER: US 5792478 A

TITLE: Tissue injectable composition and method of use

DATE-ISSUED: August 11, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lawin; Timothy P.	Vadnais Heights	MN		
Klein; Dean	Lindstrom	MN		

US-CL-CURRENT: 424/502; 424/426, 424/489, 424/501, 523/113, 523/114, 623/23.72

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

☐ 16. Document ID: US 5747475 A

L4: Entry 16 of 28

File: USPT

May 5, 1998

US-PAT-NO: 5747475  
DOCUMENT-IDENTIFIER: US 5747475 A  
  
TITLE: Chitosan-derived biomaterials  
  
DATE-ISSUED: May 5, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nordquist; Robert E.	Oklahoma City	OK		
Chen; Wei R.	Norman	OK		
Carubelli; Raoul	Oklahoma City	OK		
Adams; Robert	Oklahoma City	OK		

US-CL-CURRENT: 514/55; 536/20

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KIMC	Draw Desc	Image
------	-----------	-------

☐ 17. Document ID: US 5653967 A

L4: Entry 17 of 28 File: USPT Aug 5, 1997  
US-PAT-NO: 5653967  
DOCUMENT-IDENTIFIER: US 5653967 A  
  
TITLE: Cosmetic product including water soluble fiber  
  
DATE-ISSUED: August 5, 1997

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Murphy; Lawrence J.	Harvard	IL		

US-CL-CURRENT: 424/70.1; 424/59, 514/23, 514/777, 514/847

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KIMC	Draw Desc	Image
------	-----------	-------

☐ 18. Document ID: US 5573785 A

L4: Entry 18 of 28 File: USPT Nov 12, 1996  
US-PAT-NO: 5573785  
DOCUMENT-IDENTIFIER: US 5573785 A  
  
TITLE: Cosmetic component including water soluble fiber  
  
DATE-ISSUED: November 12, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Murphy; Lawrence J.	Harvard	IL		

US-CL-CURRENT: 424/70.1; 424/59, 514/23, 514/777, 514/847



Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

☐ 19. Document ID: US 5516543 A

L4: Entry 19 of 28

File: USPT

May 14, 1996

US-PAT-NO: 5516543

DOCUMENT-IDENTIFIER: US 5516543 A

TITLE: Oil-coated microparticulated gellan gum

DATE-ISSUED: May 14, 1996

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Amankonah; Ofori J.	San Diego	CA		
Valli; Raymond C.	San Diego	CA		
Zdanis; Dana A.	San Diego	CA		

US-CL-CURRENT: 426/573; 426/804, 426/96

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

☐ 20. Document ID: US 5451406 A

L4: Entry 20 of 28

File: USPT

Sep 19, 1995

US-PAT-NO: 5451406

DOCUMENT-IDENTIFIER: US 5451406 A

TITLE: Tissue injectable composition and method of use

DATE-ISSUED: September 19, 1995

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Lawin; Timothy P.	Vadnais Heights	MN		
Williams; Jeffrey M.	Moundsview	MN		

US-CL-CURRENT: 424/423; 424/400, 424/484, 514/492, 514/495, 600/30, 604/274

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

☐ 21. Document ID: US 5389547 A

L4: Entry 21 of 28

File: USPT

Feb 14, 1995

US-PAT-NO: 5389547  
DOCUMENT-IDENTIFIER: US 5389547 A

TITLE: Pretreating reagent, pretreatment method, assay with pretreated samples,  
assay kit and method of diagnosing infectious diseases

DATE-ISSUED: February 14, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Tanaka; Shigenori	Tokyo			JPX
Tamura; Hiroshi	Tokyo			JPX

US-CL-CURRENT: 436/94; 435/4, 436/174, 436/175, 436/63, 436/8, 436/91

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw. Desc	Image
------	------------	-------

☐ 22. Document ID: US 5380542 A

L4: Entry 22 of 28

File: USPT

Jan 10, 1995

US-PAT-NO: 5380542  
DOCUMENT-IDENTIFIER: US 5380542 A

TITLE: Dietary fiber compositions for use in foods

DATE-ISSUED: January 10, 1995

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jenkins; Ronald K.	Washington	PA		
Wild; James L.	Washington	PA		

US-CL-CURRENT: 426/573; 426/21, 426/28, 426/31, 426/579, 426/641, 426/644,  
426/646

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw. Desc	Image
------	------------	-------

☐ 23. Document ID: US 5360619 A

L4: Entry 23 of 28

File: USPT

Nov 1, 1994

US-PAT-NO: 5360619  
DOCUMENT-IDENTIFIER: US 5360619 A

TITLE: Cereal food ingredients from waxy barley

DATE-ISSUED: November 1, 1994

INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Alexander; Donald J.	Martin	ND		

US-CL-CURRENT: 426/242; 426/462, 426/507, 426/622

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KIMC	Draw Desc	Image
------	-----------	-------

☐ 24. Document ID: US 5194600 A

L4: Entry 24 of 28

File: USPT

Mar 16, 1993

US-PAT-NO: 5194600

DOCUMENT-IDENTIFIER: US 5194600 A

TITLE: Genes which participate in .beta.-glucan assembly and use thereof

DATE-ISSUED: March 16, 1993

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Bussey; Howard	Westmount			CAX
Boone; Charles	London			CAX
Sommer; Steve S.	Rochester	MN		
Hill; Kathryn	Montreal			CAX
Meaden; Philip	Horsham			GB2

US-CL-CURRENT: 536/23.74; 435/29, 435/6, 435/71.1

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KIMC	Draw Desc	Image
------	-----------	-------

☐ 25. Document ID: US 5034378 A

L4: Entry 25 of 28

File: USPT

Jul 23, 1991

US-PAT-NO: 5034378

DOCUMENT-IDENTIFIER: US 5034378 A

TITLE: Synergistic flavor enhancement nutritional compositions and methods

DATE-ISSUED: July 23, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Cox; James P.	Lynden	WA	98264	

US-CL-CURRENT: 514/23; 424/439, 426/804, 426/806, 514/55, 514/59, 514/892

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KIMC	Draw Desc	Image
------	-----------	-------

☐ 26. Document ID: US 5008254 A

L4: Entry 26 of 28

File: USPT

Apr 16, 1991

US-PAT-NO: 5008254

DOCUMENT-IDENTIFIER: US 5008254 A

TITLE: Sugar beet pectins and their use in comestibles

DATE-ISSUED: April 16, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Weibel; Michael K.	Redding	CT	06896	

US-CL-CURRENT: 514/57; 424/439, 424/441, 426/570, 426/602, 426/605, 426/615,  
426/804, 514/54, 514/777, 514/781, 536/2, 536/56

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

☐ 27. Document ID: US 4997665 A

L4: Entry 27 of 28

File: USPT

Mar 5, 1991

US-PAT-NO: 4997665

DOCUMENT-IDENTIFIER: US 4997665 A

TITLE: Dietary fibers and a process for their production

DATE-ISSUED: March 5, 1991

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Grethlein; Hans	Okemos	MI		

US-CL-CURRENT: 426/542; 426/543, 426/804

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

☐ 28. Document ID: US 4871571 A

L4: Entry 28 of 28

File: USPT

Oct 3, 1989

US-PAT-NO: 4871571

DOCUMENT-IDENTIFIER: US 4871571 A

TITLE: Dietetic foodstuff containing low calorie bulking agent

DATE-ISSUED: October 3, 1989

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Jensen; Villy J.	Bagsvaerd			DKX
Pedersen; Sven	Gentofte			DKX
Olsen; Hans A. S.	Holte			DKX

US-CL-CURRENT: 426/548; 426/549, 426/565, 426/590, 426/658, 435/95

Full	Title	Citation	Front	Review	Classification	Date	Reference
------	-------	----------	-------	--------	----------------	------	-----------

KWIC	Draw Desc	Image
------	-----------	-------

---

Terms	Documents
b-glucan	28

---

Documents, starting with Document:

**Display Format:**

**WEST**[Help](#)[Logout](#)[Interrupt](#)[Main Menu](#)[Search Form](#)[Posting Counts](#)[Show S Numbers](#)[Edit S Numbers](#)[Preferences](#)**Search Results -**

Terms	Documents
l4 and medical.as.	1

**Database:**

[US Patents Full-Text Database](#)  
[US Pre-Grant Publication Full-Text Database](#)  
[JPO Abstracts Database](#)  
[EPO Abstracts Database](#)  
[Derwent World Patents Index](#)  
[IBM Technical Disclosure Bulletins](#)

Refine Search:

l4 and medical.as.

[Clear](#)**Search History****Today's Date: 12/3/2001**

<u>DB Name</u>	<u>Query</u>	<u>Hit Count</u>	<u>Set Name</u>
USPT	l4 and medical.as.	1	<u>L5</u>
USPT	b-glucan	28	<u>L4</u>
USPT	fibercel	3	<u>L3</u>
USPT	4005195.pn. or 4508746.pn. or 4582927.pn. or 3579548.pn. or 3932532.pn. or 5374446.pn. or 5427815.pn. or 5516544.pn. or 4861613.pn. or 4983329.pn. or 5175323.pn. or 5603978.pn. or 5641534.pn. or 5589217.pn. or 5597605.pn.	15	<u>L2</u>
USPT	4005195 or 4508746 or 4582927 or 3579548 or 3932532 or 5374446 or 5427815 or 5516544 or 4861613 or 4983329 or 5175323 or 5603978 or 5641534 or 5589217 or 5597605	359	<u>L1</u>